

**Best Available Copy**

Serial No. TBA

Applicants: Michael L. Obradovich  
Michael L. Kent  
John G. Dinkel

Filing Date	Group
Herewith	TBA

*Exam. Init.		Document No.							Date	Name	Class	Subclass	Filing Date if Appropriate
<del>01</del>		5	5	2	5	9	7	7	6-11-96	Suman	/	/	
<del>02</del>		5	4	9	3	6	5	8	2-10-96	Chiang et al.	/	/	
<del>03</del>		5	4	8	3	6	3	2	1-9-96	Kuwamoto et al.	/	/	
<del>04</del>		5	4	7	5	3	9	9	12-12-95	Borsuk	/	/	
<del>05</del>		5	4	3	2	9	0	4	7-11-95	Wong	/	/	
<del>06</del>		5	3	5	1	0	4	1	9-27-94	Ikata et al.	/	/	
<del>07</del>		5	3	3	5	2	7	6	8-2-94	Thompson et al.	/	/	
<del>08</del>		4	5	3	6	7	3	9	8-20-85	Nobuta	/	/	
<del>09</del>		5	5	5	9	5	2	0	9-24-96	Barzegar et al.	/	/	
<del>10</del>		5	4	9	7	3	3	9	3-5-96	Bernard	/	/	

[illegible][illegible]**Date Considered**

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

09800-1037

**TBA**

**INFORMATION DISCLOSURE STATEMENT**  
**BY APPLICANT**  
(Use several sheets if necessary)

- -Continued- -

Applicants: Michael L. Obradovich  
Michael L. Kent  
John G. Dinkel

**Filing Date**

Herewith

Group

**TBA**

## U.S. PATENT DOCUMENTS

*Exam. Init.	Document No.							Date	Name	Class	Subclass	Filing Date if Appropriate
DA	5	5	5	5	2	8	6	9-10-96	Tendler	—	—	
DA	5	4	5	0	3	2	9	9-12-95	Tanner	—	—	
DA	5	4	7	9	4	8	2	12-26-95	Grimes	—	—	
DA	5	5	7	9	5	3	5	11-26-96	Orlen et al.	—	—	
DA	5	5	7	2	2	0	4	11-5-96	Timin et al.	—	—	
DA	5	5	1	9	4	0	3	5-21-96	Bickley et al.	—	—	
DA	5	2	9	9	1	3	2	3-29-94	Wortham	—	—	
DA	5	3	3	4	9	7	4	8-2-94	Simms et al.	—	—	
DA	5	2	3	5	6	3	3	8-10-93	Dennison et al.	—	—	
DA	5	1	1	9	5	0	4	6-2-92	Durboraw, III	—	—	

FOREIGN PATENT DOCUMENT

[illegible]

**OTHER DOCUMENTS** (including Author, Title Data, Pertinent Pages, Etc.)

[illegible]

**Examiner**

**Date Considered**

Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Serial No.

**TBA**

Filing Date

Group

**TBA**

--Continued--

[illegible][illegible][illegible]

Date Considered

Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609;  
Draw line through citation if not in conformance and not considered. Include copy of this form  
with next communication to applicant.

Atty. Docket No.

09800-1037

Serial No.

TBA

**INFORMATION DISCLOSURE STATEMENT**  
**BY APPLICANT**  
(Use several sheets if necessary)

Applicants: Michael L. Obradovich  
Michael L. Kent  
John G. Dinkel

Filing Date  
Herewith

Group	TBA
-------	-----

**U.S. PATENT DOCUMENTS**

*Exam. Init.	Document No.							Date	Name	Class	Subclass	Filing Date if Appropriate
<del>01</del>	5	5	7	6	7	2	4	11-19-96	Fukatsu et al.	<del>1</del>	<del>1</del>	
<del>02</del>	5	4	1	4	4	3	9	5-9-95	Groves et al.	<del>1</del>	<del>1</del>	
<del>03</del>	4	7	5	2	8	2	4	6-21-88	Moore	<del>1</del>	<del>1</del>	
<del>04</del>	4	7	4	0	7	7	9	4-26-88	Cleary et al.	<del>1</del>	<del>1</del>	
<del>05</del>	5	4	4	0	4	2	8	8-8-95	Hegg et al.	<del>1</del>	<del>1</del>	
<del>06</del>	5	3	7	1	5	1	0	12-6-94	Miyauchi et al.	<del>1</del>	<del>1</del>	
<del>07</del>	5	3	6	1	1	6	5	11-1-94	Stringfellow et al.	<del>1</del>	<del>1</del>	
<del>08</del>	4	7	9	5	2	2	3	6-23-89	Moss	<del>1</del>	<del>1</del>	
<del>09</del>	4	6	3	6	7	8	2	1-13-87	Nakamura et al.	<del>1</del>	<del>1</del>	
<del>10</del>	4	5	8	2	3	8	9	4-15-86	Wood et al.	<del>1</del>	<del>1</del>	

**FOREIGN PATENT DOCUMENT**

[illegible]

**OTHER DOCUMENTS (including Author, Title Date, Pertinent Pages, Etc.)**

[illegible]

**Examiner**

**Date Considered**

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Serial No. TBA

**Applicants: Michael L. Obradovich  
Michael L. Kent  
John G. Dinkel**

Group	TBA
-------	-----

*Exam. Init.	Document No.								Date	Name	Class	Subclass	Filing Date if Appropriate
01	5	5	0	6	5	9	5	4-9-96	Fukano et al.				
02	4	8	1	8	0	4	8	4-4-89	Moss				
03	5	5	1	9	4	1	0	5-21-96	Smalanskas et al.				
04	5	5	0	4	6	2	2	4-2-96	Oikawa et al.				
05	5	4	9	7	2	7	1	3-5-96	Mulvanny et al.				
06	5	4	8	6	8	4	0	1-23-96	Borrego et al.				
07	5	4	0	0	0	4	5	3-21-95	Aoki				
08	5	2	7	8	5	3	2	1-11-94	Hegg. et al.				
09	5	2	1	4	4	1	3	5-25-93	Okabayashi et al.				
10	5	1	9	8	7	9	7	3-30-93	Daidoji				

[illegible][illegible]**Date Considered**

- \* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 U.S. Department of Commerce  
(REV. 2-82) Patent and Trademark Office

Atty. Docket No.

09800-1037

Serial No.

TBA

**INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT**  
(Use several sheets if necessary)

Applicants: Michael L. Obradovich  
Michael L. Kent  
John G. Dinkel

Filing Date  
Herewith

Group

TBA

## U.S. PATENT DOCUMENTS

*Exam. Init.	Document No.							Date	Name	Class	Subclass	Filing Date if Appropriate
<del>92</del>	5	0	7	0	3	2	3	12-3-91	Iino et al.	<del>1</del>	<del>1</del>	
<del>92</del>	5	0	5	1	7	3	5	9-24-91	Furukawa	<del>1</del>	<del>1</del>	
<del>92</del>	4	9	8	8	9	7	6	1-29-91	Lu	<del>1</del>	<del>1</del>	
<del>92</del>	4	8	7	6	5	9	4	10-24-89	Schiffman	<del>1</del>	<del>1</del>	
<del>92</del>	4	8	3	7	5	5	1	6-6-89	Iino	<del>1</del>	<del>1</del>	
<del>92</del>	4	7	4	0	7	8	0	4-26-88	Brown et al.	<del>1</del>	<del>1</del>	
<del>92</del>	4	4	0	7	5	6	4	10-4-83	Ellis	<del>1</del>	<del>1</del>	

## FOREIGN PATENT DOCUMENT

Document No.							Date	Country	Class	SubClass	Translator	
											Yes	No

## OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)


Examiner

Date Considered

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 U.S. Department of Commerce  
(REV. 2-82) Patent and Trademark Office

Atty. Docket No.  
09800-1037

Serial No.  
TBA

INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT  
(Use several sheets if necessary)

Applicants: Michael L. Obradovich  
Michael L. Kent  
John G. Dinkel

Filing Date  
Herewith

Group  
TBA

U.S. PATENT DOCUMENTS

*Exam. Init.	Document No.							Date	Name	Class	Subclass	Filing Date if Appropriate
<del>OA</del>	5	2	5	7	1	9	0	10-26-93	Crane			
<del>OA</del>	5	4	5	0	3	2	1	9-12-95	Crane			
<del>OA</del>	4	7	3	1	7	6	9	3-15-88	Schaefer et al.			
<del>OA</del>	5	0	0	6	8	2	9	4-9-91	Miyamoto et al.			
<del>OA</del>	4	4	0	1	8	4	8	8-30-83	Tsunoda			
<del>OA</del>	5	4	5	0	6	1	3	9-12-95	Takahara et al.			
<del>OA</del>	4	9	1	4	7	0	5	4-3-90	Nigawara			
<del>OA</del>	4	3	1	4	2	3	2	22-2-82	Tsunoda			
<del>OA</del>	5	7	7	7	3	9	4	7-7-98	Arold			
<del>OA</del>	5	3	3	5	7	4	3	8-9-94	Gillbrand et al.			

FOREIGN PATENT DOCUMENT

	Document No.							Date	Country	Class	SubClass	Translation Yes No	
<del>OA</del>	4	4	3	1	0	7	0	3-7-96	Germany			X	

OTHER DOCUMENTS (including Author, Title Date, Pertinent Pages, Etc.)


Examiner

Date Considered

Examiner: Initial citation considered, whether or not citation is in conformance with MPSP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with every communication to applicant.





09800-1037

TBA

Applicants: Michael L. Obradovich  
Michael L. Kent  
John G. Dinkel

Filing Date  
Herewith

Group	TBA
-------	-----

U.S. PATENT DOCUMENTS												
*Exam. Init.	Document No.							Date	Name	Class	Subclass	Filing Date if Appropriate
	S	6	5	4	7	1	5	8-5-97	Hayashikura et al.			
	S	6	3	8	3	0	5	6-10-97	Kobayashi et al.			
	S	6	8	9	2	5	2	11-18-97	Ayanoglu et al.			
	S	6	4	8	7	6	9	7-15-97	Sato et al.			
	S	7	5	2	7	5	4	5-19-98	Amitani et al.			
	S	7	5	8	3	1	1	5-26-98	Tsuji et al.			
	S	6	2	7	5	4	7	5-6-97	Ramaswamy et al.			
	S	6	5	0	9	2	9	7-22-97	Potter et al.			
	S	5	5	3	6	6	1	9-10-96	Beyerlein et al.			
	S	6	6	6	1	0	2	9-9-97	Lahiff			
	S	6	9	1	6	9	5	11-25-97	Lahiff			

[illegible][illegible]


**Examiner**

Date Considered

Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609;  
Draw line through citation if not in conformance and not considered. Include copy of this form  
with next communication to applicant.

U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No.¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code² (if known)			
DA		5203499		Knittel	April 1993	
DA		5919239		Fraker et al.	July 1999	
DA		4291749		Ootsuka et al.	Sept. 1981	
DA		4337821		Saito	July 1982	
DA		4441405		Takeuchi	April 1984	
DA		5416318		Hegyí	May 1995	
DA		5547125		Hennessee et al.	Aug. 1996	
DA		5553661		Beyerlein et al.	Sept. 1996	
DA		5653386		Hennessee et al.	Aug. 1997	
DA		5208756		Song	May 1993	
DA		5497149		East	March 1996	
DA		5515285		Garrett, Sr., et al.	May 1996	
DA		5767788		Ness	June 1998	
DA		5874889		Higdon et al.	Feb. 1999	
DA		6002334		Dvorak	Dec. 1999	
DA		6037991		Thro et al.	March 2000	
DA		6011505		Wagener	Aug. 2000	
DA		5515419		Sheffer	May 1996	
DA		5631642		Brockelsby et al.	May 1997	
DA		5673305		Ross	Sept. 1997	

[illegible]

Examiner Signature		Date Considered	8/20/04
-----------------------	---	--------------------	---------

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

**Burden Hour Statement:** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.**

Please type a plus sign (+) inside'



PTO/SB/08A (08-00)

Approved for use through 10/31/2002 OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	TBA
				Filing Date	Herewith
				First Named Inventor	M. Obradovich et al.
				Group Art Unit	TBA
				Examiner Name	TBA
Sheet	12	of	15	Attorney Docket Number	09800-1037

[illegible][illegible]

Examiner Signature		Date Considered	8/20/04
-----------------------	---	--------------------	---------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

**Burden Hour Statement:** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.**

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

~~Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.~~

**Complete if Known**

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

***(Use as many sheets as necessary)***

Sheet

13

of

15

Application Number

**TBA**

Filing Date

**Herewith**

**First Named Inventor**

M. Obradovich

**Art Unit**

**TBA**

<b>Examiner Name</b>
----------------------

TBA

Attorney Docket Number

**09800-1037**

## U. S. PATENT DOCUMENTS

[illegible]

## FOREIGN PATENT DOCUMENTS

[illegible]

**Examiner  
Signature**

Date Considered

\*EXAMINER: Initial reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 801.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

***If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.***




Please type a plus sign (+) inside this box →

PTO/SB/08A (08-00)  
Approved for use through 10/31/2002. OMB 0651-0031  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE  
a collection of information unless it contains a valid OMB control number.

**Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.**

Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>				<b>Complete If Known</b>	
				Application Number	TBA
				Filing Date	Herewith
				First Named Inventor	M. Obradovich
				Group Art Unit	TBA
				Examiner Name	TBA
Sheet	15	of	15	Attorney Docket Number	09800-1037

[illegible][illegible]

Examiner Signature		Date Considered	8/2/64
-----------------------	---	--------------------	--------

\*EXAMINER: Initial if reference considered whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

**Burden Hour Statement:** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:** Assistant Commissioner for Patents, Washington, DC 20231.

**This Page is Inserted by IFW Indexing and Scanning  
Operations and is not part of the Official Record**

**BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ BLACK BORDERS
- ☐ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
- ☐ FADED TEXT OR DRAWING
- ☐ BLURRED OR ILLEGIBLE TEXT OR DRAWING
- ☐ SKEWED/SLANTED IMAGES
- ☐ COLOR OR BLACK AND WHITE PHOTOGRAPHS
- ☐ GRAY SCALE DOCUMENTS
- ☐ LINES OR MARKS ON ORIGINAL DOCUMENT
- ☐ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY
- ☒ OTHER: letter are too small

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.**